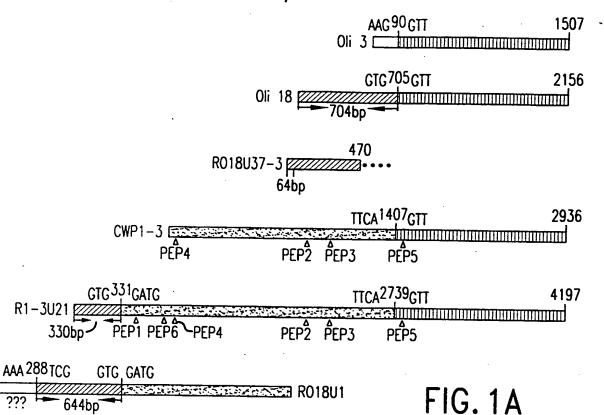
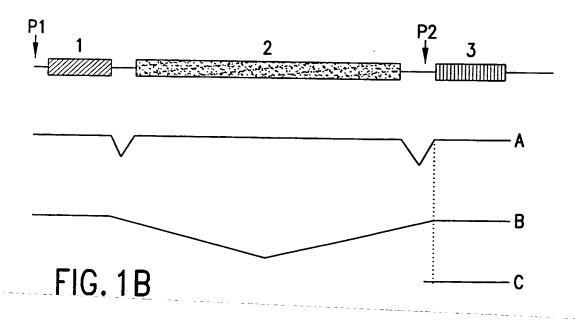
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**1**0 170 137 37 2 TECCEAACE CECACAACE CECEGEACTE TEAGGAGAAG CECECTECE CEGETGTAG CTCCAGEATE GTEGEGEACE CECEAGEE (ATG) GAAGACATA ATTG CTCSTCTGGG CGCCGCGGG GGCTGCAGCC TGGGACAGGG CGGGTGGCAC ATCTCGATCG GACCAGICGI CECTGGICIC CICCICCACE GACAGCCCCC CCCGCCTIC GCCCCCTIC AAGIACCAGI ICGIGACGGA GCCCGAGGAC GAGGAGGACG AGAGGAACTG GAGGTGCTGG AGAGGAAGCC CCCAGCCGGG CTGTCCGCAG CTGCGGTGCC CCCCTGCCGC TCCTGAGAGG CTTCCACCC GCCGCCCC AAGCGCAGGG GCTCCGGCTC လ လ TGGAGCAGCC AGGTAACACT م A A م ပ CGAAGGCAGG AGAAGCAGIC ICAIIGIICC GGGAGCCGIC GCCICIGCAG GIICTICGGC ICGGCICGGC ACGACICGGC CIGCCIGGCC ( S 0 ~ م ¥ COCCCCTC CCCCCCCCC GGGAACGCAG CCCCCCCCCC CCCCCCCAT CCCTGCCCCC CCTGCCCCA GTCCTGCCCT CCAAGCTCCC AGIGGAIGAG ACCCTITITG CTCTICCTGC TGCATCTGAG CCTGTGATAC CCTCCTCTGC AGAAAAATT ATGGATTTGA 4 ⋖ P A ¥ > **~** ط S م مـ >-<u>~</u> S ပ ¥ > م ≃ 900000000 GCCGCAGCCC GCCGCCCCC ⋖ A P ۵. ¥ **4** × <u>а</u> ¥ سا ⋖ م ۵. ۵ 100010000 \_ ^ م ط م > ≃ S م S م ACCACCACCT CAGCAGCGAC CCACCCCCT بيا م م م S S S ⋖ S S A A 0 م ⋖ GCAGGACGAG GAGGAGGACG A A CCAGGCCCC GCCTCCCCC CCAGCCGCC TCCTGGACTT ပ ۵. S ⋖ A L S S م S 20222222 ۵ م 2 ؎ 4 w م ¥ S **=** 22222222 \_ а. а. 2

270 237 王 山 Z \_ \_ \_ ¥ ATGAAGCTIC TAAAGAGTIG CCAGAGAGGG S > \_ S ىيا ۵. S CCTCAGAAGG AACAATTGAA GAAACTTTAA S V <u>-</u> سا S S S **GCACTGTCAT** م GATACCTIGG TAACTTATCA \_ Z ပ ပ S

GICCIGCTIG AAACIGCIGC CICICITICCI ICICIAICIC CICICICAAC IGITICITIT AAAGAACAIG

GTTICCTCTC GTCAAGAGGA TTTCCCATCT

快声。

TCCCCAAAAG GAGAGICAGC CAIATIAGIA S لبا ပ ط S ᅩ S TGGGATCATC S ပ ≆ CAGAATITIC AGAATTAGAA TATTCAGAAA A E F S E L E Y S E ACACATTIAC 0 <u>~</u>

337 ပ **AGAATCACCT** 0 ACAGTCCACA ط S 工 AGTITGIAGI GCAGCCCTTC V 4 S ပ > -**AACACCATIT** 0 ...  $\succeq$ AATTGTGAGG AGTAAAGACA V I V R S K D 0 S AGGAAGAAGT سا **~** 

370 GAAAAGACAA IGGACAIIII IAAIGAAAIG CAGAIGICAG IAGIAGCACC IGIGAGGGAA GAGIAIGCAG ACIIIAAGCC w ∞ > ے V > > S ≥ 0 ≥ u z 0 ≥ **×** w ٩ S **∝** 

404 **×** GIGGAAAGTA AAGTGGACAG **×** S ш > Z TAGAGCTAAT V <u>~</u> ~ 16C166C16C ⋖ > ACTACCCATC 0  $\simeq$ S TTATGAGGGA ပ نيا **> IGAAAGATAC** 0  $\mathbf{\times}$ > **GCATGCGAAG** u

437 ACCTGTGAAG GACAGCTCCA S 0  $\times$ GTACCCCAGA م S Ф S 0 u z TGGAGCAAAA AAGTCTTGGG AAGGATAGTG AAGGCAGAAA ≃: ပ u S 0 ¥ ပ S **×** 0 w

470 AGAAGATCAT ACTICAGAAA ATAAAACAGA S H 0 ш — CCAAACACTT TCCCTTTGTT ۵. r z ⋖ AAGCACCACA S CAGCAACCGA ⋖ S TCCTTTACCT S TACCTGTGCT ပ

504 TTCCTTGTAG CAGTACAGGA TTCTGAGGCA 0 ¥ **GTCAAATCCT** ٩ z S AATTATAACA GAGAAGACTA GCCCCAAAAC Q I I I E K T S P K TGAAAAAA ATAGAAGAAA GGAAGGCCCA ⋖ **×** <u>~</u> ¥

537 **GCATGTGAAA** CTIATCAAAG GTGACTGAGG CAGCAGTGTC AAACATGCCT GAAGGTCTGA CGCCAGATTT AGTTCAGGAA 0 \_ ے ပ سا ٩ ≥ Z S > ⋖ V > S CAACAGATAC 

570 AGCIAIACAA GAAICACIII ACCCCACAGC م က် ⋖ AAACATCAGA S O AACAAAAGTG GACTTGGTCC E T K V D L V GGTACAAAGA TTGCTTATGA >-⋖ ¥ ပ TCAACCCACA ~ GTGAACTGAA

604 S ۵. S Z TCTTATGGAA GCACCATTAA م ¥ ≥ AGCAACTCCG TCACCAGTTT TGCCTGATAT 0 ٩ S ب

FIG.2A

670 637 CIAAAAGCII IGGGAACAAA GGAAGGAAIA AAAGACCCIG AAAGIIIIAA IGCAGCIGII CAGGAAACAG O AGCTIGAGCC > V V N × GGTGCTICIG IAGTGCAGCC CAGTGTATCC CCACTGGAAG CACCTCCTCC AGTTAGTTAT GACAGTATAA \_ \_ S ىيا S ш × ပ ۵. V ပ ۵. ⋖

704 × TCCACTGAGC CAAGTCCAGA TITCTCTAAT TATTCAGAAA TAGCAAAATT CGAGAAGTCG Z S 0 ط S Ф S **⊼ AACAAAGCTC** CCCTCTCATT TAATTAAAGA ¥ 0 ပ

737 > ш ATTCCATTCC S 0 AGTIGACTIA TTTAG1GA1G S O <u>\_</u> \_ > AGTGGAGGAT TCCTCACCTG AATCTGAACC S ب S s**∢** E 0 > \_\_ ⋖ 工

770 GTCTGAGACA GTAGCCCAGC ACAAAGAGGA GAGACTTAGT GCCTCACCTC AGGAGCTAGG 0 S × S ~ π × 0 V s > TCACTGAAGT CATCCTCATC AACCACACTC
V M L M K E S

804 AAAAGGAGAA AATTICTTIG ¥ TIAGAGICII TICAGCCCAA TITACATAGI ACAAAAGAIG CIGCATCIAA IGACATICCA ACATIGACCA О N A A S **∠** S 工 О Ш

837 TCAAATGATG ACTTACTTTC ITCTAAGGAA GACAAAATAA AAGAAAGTGA AACATTTTCA GATTCATCTC S S ىيا ¥ ~ 0 **×** S S 0 z S TCCAATTTAT **∀** AGITIAATAC Z

870 S GTACACTGAT CTAGAAGTAT TAAAGATGAT TCTCCTAAAT TAGCCAAGGA A K D D S P K L A K TTGTCAGTGC F V S <u>-</u> -CCATTGAGAT AATAGATGAA TITCCCACGT 0 - -

904 CCTITCTITC AAGAATATA ATCCTAAAGA TGAAGTACAT Z ¥ N L AATATCCAAA GCGGGCAGA TTCATTGCCT TGCTTAGAAT TGCCCTGTGA <u>ا</u> 3 7 0 S O ပ S

937 CTTTGGAACC TCAGACAGAA ATGGGCAGCA 4 S 2 S ط AATTCTCCGA AAATAGGTCC E F S E N R S 2

FIG.2A3

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TAGTTAAATC CAAATCACTT ACCAAAGAAG CAGAGAAAAA ACTTCCTTCT GACACAGAG AAGAGGACAG ATCCCTGTCA GCTGTATTGT CAGCAGAGCT I V K S K S L T K E A E K K L P S D T E K E D R S L S A V L S A E 9	GAGTAAAACI ICACTIGIIG ACCICCICIA CIGGAGAGAC ATTAAGAAGA CIGGAGIGGI GITIGGIGGC AGCITATICC IGCIGCIGIC ICIGACAGIG
CCTGTATTGT A V L	16C16C1G1C
ATCCCTGTCA R S L S	ACCTIATICC
AAGAGGACAG K E D	0111061600
GACACAGAGA D ∏ E	CTGGAGTGGT
ACTTCCTTCT K L P S	ATTAAGAAGA
CAGAGAAAA A E K	CTGGAGAGAC
ACCAAAGAAG T K E	ACCTCCTCTA
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TAGTITAAATC I V K	CACTAAAACT

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	1037	
ATCCAGAAAT	0 -	
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	1070	
TCTGCTCTTG GTCATGTGAA	SALGHV	OUTTACTTA TOTTOCTOR
CACATGAAGG CCACCCATTC AGGCCATATT TAGAATCTGA AGTTGCTATA TCAGAGGAAT TGGTTCAGAA ATACAGTAAT TCTGCTCTTG GTCATGTGAA	AYLESEVAISEELVOKYSNSALGHV 1070	CACCACAATA AAAGAACTGA GGCGCTTTT CITAGTIGAT GATTTAGTIG ATTCCCTGAA GTTTGCAGTG TTGATGTGG TGTTTACTTA TGTTGEGG
A TCAGAGGAAT	SE	ATTCCCTGAA
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II TAGAATCTGA	L E S	IT CTTAGTTGAT
AGGCCATA	Α Α	666666111
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CAGATGAAGG		CAGCACAATA

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16116616C Y V G	CATTATCTA
CAGCACAATA AAAGAACTGA GGCGGCTITI CITAGITGAI GAITIAGITG AITCCCTGAA GTITGCAGIG ITGATGIGG IGITIACITA IGITGGIGCC N S II I K E L R R L F L V D D L V D S L K F A V L M W V F I Y V G A 1104	ATITTA GCICTGATCT CACTCTTCAG TATTCCTGTT ATTTATGAAC GCCATCAGGT GCAGATAGAT CATTATCTAG
TTGATGTGGG L M W	GCCATCAGGT
TTTGCAGTG F A V	TITA CCICIGAICI CACICITCAC LATICCIGIT ATTIATGAAC GCC
TCCCTGAA G	TTCCTGTT A
TTAGTTG AT	TCTTCAG TA
ICTTCAT GAT V D D	TGATCT CAC
CTTT CTA	TITTA CCTC
CAGCACAATA AAAGAACTGA GGCGG	
VATA AAAGAA    I K E	IGTICAATG GTCTGACACT ACTG
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	1163
IGCCA TGCCCAAAAT CCAAGCAAAA ATCCCTGGAT TGAAGCGCAA AGCAGATTGA AAAAGCCCCA AACAGAAGTT	
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CCA TGCCCAAAT	X X
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 GACT TGCAAA	ب س

AGCAGTGCAC TTGTCTTCCC	GAGGCAAAT	CTAATCTATA	AAGACTTACT	CTTATAGACT	
CTTTATTTT	GAGI IGI AAA GTTTAGA TGA	AAATATAGAC GTAGTCCCAA	TGTCATTTCA	ATCAATAAAG	
GGTTTCAGCT GGATCTCATT	ICTATICAGA GAAATGAAAT	CAATATAAGT	AAATATAGAA	AAAGCAAAGT	
STGGCCGTGC TGCTGTGTAT	MCATTTTCT	GACTCATTC	ACTCCAACAA	TCAACTGTA	
CATCITIANA GGGGACACTC ACTIGATIAC GGGGTGGGA GGGTCAGGGG TGAGCCCTTG GTGGCCGTGC GGTTTCAGCT CTTTATTTT AGCAGTGCAC TGTTTGAGGA AAAATTACCT GTCTTGACTT CCTGTGTTA TCATCTTAAG TATTGTAAGC TGCTGTGTAT GGATCTCATT GTAGTCACAC CAATGAGGGG CCTGGTGAAT AAAGGACTTG GCGAAAGCTC TCATTGTAT GTGTGGAGG GTAGTGGTGG GATGTGGAAT AAAGGACTTG GCGAAAGCTC TCATTGTAT GTGTGGAGGGG GCTGGTGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGA	STGGGGGCAG GGAAAACCT TITCACAGTG TACTGTGTTT GGTCAGTGTA AAACTGATGC AGATTTTTCT GAAATGAAAT	TATAGIGITI CACAAAGCIT AGAICITTAA CCIIGCACCI GCCCCACAGI GCIIGACII IGCI GIIAIAIIGC CAAIAIAAGI AAATATAGAC CIAATCIATA TATAGIGIGI TI CACAAAGCIT AGAICITTAA CCIIGCAGCI GCCCCACAGI GCIIGACCIC IGAGICATIG GTIAIGCAGI GTAGICCCAA GCACAIAAAC	IANGAANANA AAIGIAIIIG IAGGAGIGCI ACCIACCACC TGTTTTCAAG AAAATATAGA ACTCCAACAA AAATATAGAA TGTCATTICA AAGACITACT GTATGTATAG TTAATTTIGT CACAGACTCT GAAATICTAT GGACTGAATT TCATGCTTCC AAATGTTTGC ACTTATCAAA CATTGTTATA CAAGAATAGA	TAAAATGAAG ACTTATACCA TTGTGGTTTA ACCCCTACTG AATTATCTGT GGAATGCATT GTGAACTGTA AAAGCAAAGT ATCAATAAAG CTTATAGACT	•
GGCTCAGGG TCATCTTAAG	GCTCACTGTA	ACCCCACAGT	TGTTTTCAAC	AATTATCTGT	
GGGGGTGGGA CCTGTGTTTA GGGAAAGCTG	TACTGTGTTT	CCTTCCACCT	ACCTACCACC GAATTCTAT	ACCCCTACTC	
ACTIGATTAC GTCTTGACTT	TTCACAGT6	AGATCTTTAA	ACCACTICT CACAGACTCT	TIGTGGTTTA	
SGGGACACTC AAAATTACCT	SCAAAACCCT	CACAAGCTT	AATGTATTIG TAATTTTGT (	CTTATACCA	
CATCTTTAAA ( TGTTTGAGGA /	TEGGGGCAG (	TATAGTGTTT (	TATCTATAC 1	TAAAATGAAG /	
<u> </u>		<i>,</i>	<del>-</del> ن		

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peptide 1:	EYLGDLPAVLPTE	peptide 4:	KXFEXVWEV
(bovine)	EYLGDLPAVLPTE	(bovine)	KPFERVWEV
(rat)	gYLGnLsAVsssE	(rat)	KPFEQaWEV
peptide 2:	EIAEIQDG ESL	peptide 5:	VVDLLYWRDIK
(bovine)	EIAdIQDGagSL	(bovine)	VVDLLYWRDIK
(rat)	EIAnIQsGadSL	(rat)	VVDLLYWRDIK
peptide 3:	KXYLESIQPSLGITK	peptide 6:	KAVAAEASMREEYADF
(bovine)	KPYLESfQPSLGITK	(bovine)	KgVAAEASMgEEYADF
(rat)	KPYLESfQPnLhsTK	(rat)	mqmsvvApvREEYADF

FIG.2B

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50 VLIAAIGHRL LLSVTISFRI LLSVTISFRI ALSATISFRI ALSATISFRI ALGAAAGFRV	CHVNSTVKEL VSHINLIILNR GHVNCTIKEL GHVNSTIKEL LYVNSTLKEL LYVNSTLKEL EHATCIANKL	SMFTLPVVYD CICCLTLLYL SLFSJPVIJYE SMFTLPVVYV SMFTLPVVYV CVFSVPKVYE CVFSVPKVYE TKAE	RKAE RKAE KAAD KHAE OGE
· · · · · · · · · · · · · · · · · · ·	CONTOCKYTDCLO EETLYLAGKA LVOKYSNSAL LVOKYSNSAL ONOKYTDCLO ONOKYTDCLO ONOKYTDCLO ONOKYTDCLO	GLTLLIMA GLTLLILA GLTLLILA GLTLLIMA GLTLLIMA AK	LK AK LRSAPVAAEE
<u>0&gt;&gt;&gt;00</u>	LDMEMNLSQD YPHPK1E1PR LESEVA1SEE LESEVA1SEE LELEITLSQE LELEITLSQE LAQDLTLPQE	TYVGAL INLLGD TYVGAL TYVGAL TYVGAL TYIASW KIQAKI	MAK I QAK I PG WAK I QAK I PG VAK I QAK I PG VAK I QAK I PG ON I JI DEKLEF
	TDEGHPFKAY DENKDQ1LRF SDEGHPFRAY TDEGHPFRAY TDEGHPFRAY TDEGHPFRAY TDEGHPFRAY	DSLKFAVLMW EDSLKFLVLL DSLKFAVLMW DSLKFAVLMW DSLKFAVLMW ESIIKFGLVLM 170 GLVRTHINTV	GLANKNVKDA GLANKSVKDA GLVRTHINAV GLVRTHINTV ATISGHLKNV
	YKSVLOAVOK YKGVIJOAIOK YKGVIJOAIOK YKSVLOAVOK YKSVLOAVOK FKKVE AQIOK	RRLFLVQDLV MIELLLVEKW RRLFLVDDLV RRLFLVDDLV RRLFLVDDLV KKLNFVESPL 160	OAOID OAOID OAOID OAOID
		101 101 101 151	101101
CHS-REX U51048 NOGOBOV NOGORAT NSP S-REX W06A7A	CHS-REX U51048 NOCOBOV NOCORAT NSP S-REX W06A7A	CHS-REX U51048 NOGOBOV NOGORAT NSP S-REX W06A7A CHS-REX	NOGOBOV NOGORAT NSP S-REX WO6A7A

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NOGOBOV 97.3%
NOGORAT 98.3% 62.5%
S-REX 91.1% 16.6%
CHS-REX W06A7A U51048
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FIG. 3B

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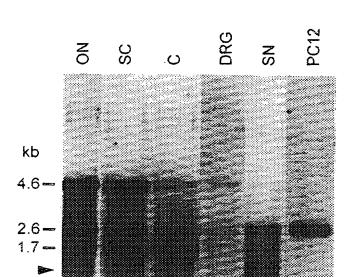


FIG.4A

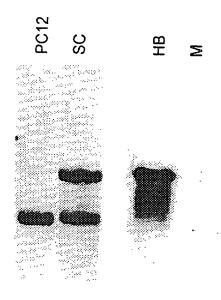
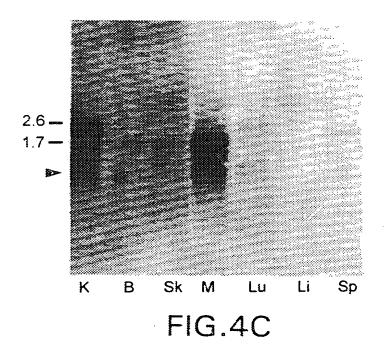


FIG.4B

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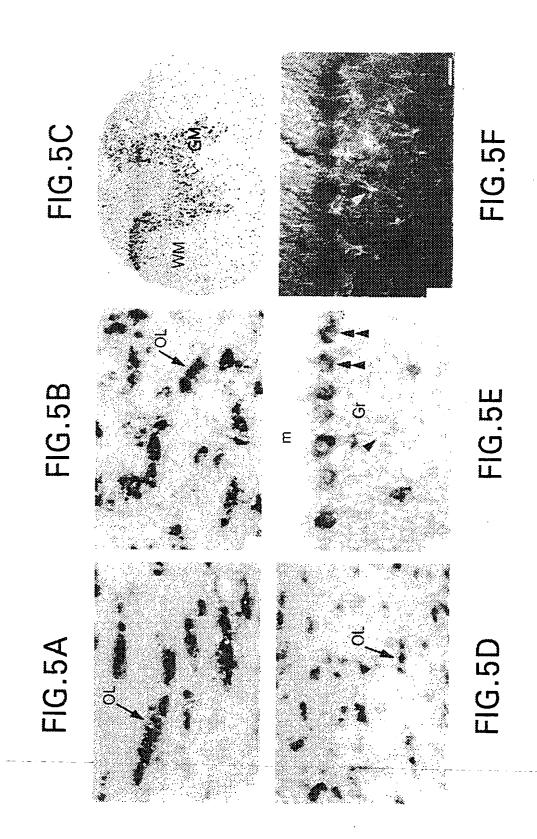
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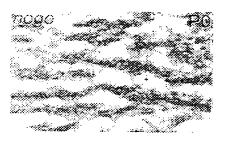


FIG.6A

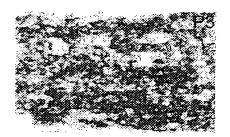


FIG.6B

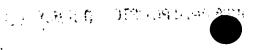


FIG.6C



FIG.6D

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FIG.6E

FIG.6F

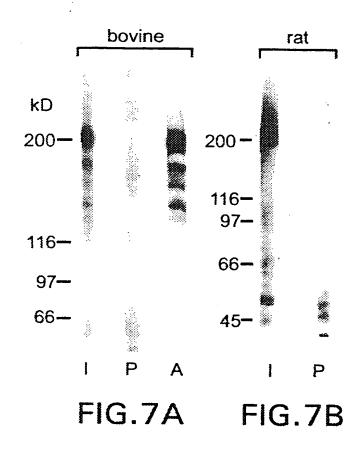
FIG.6G



FIG.6H

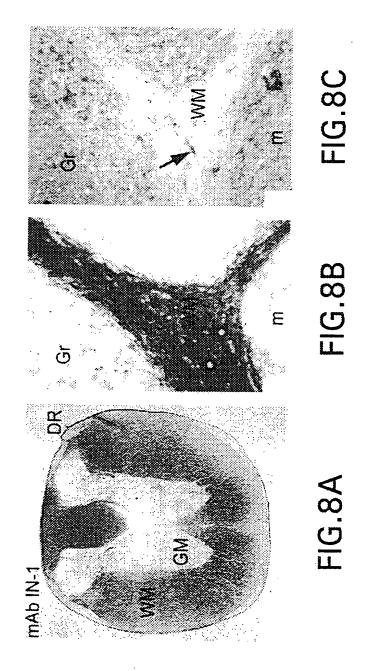


FIG.61

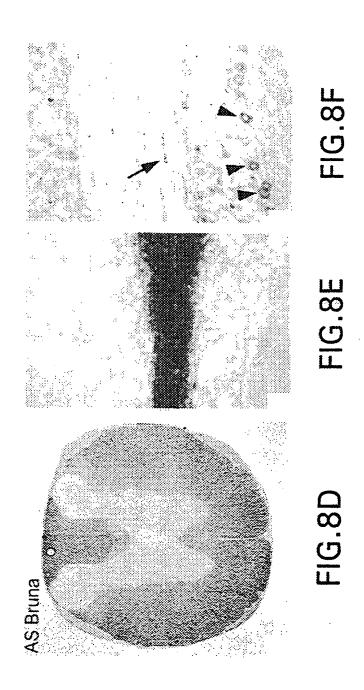


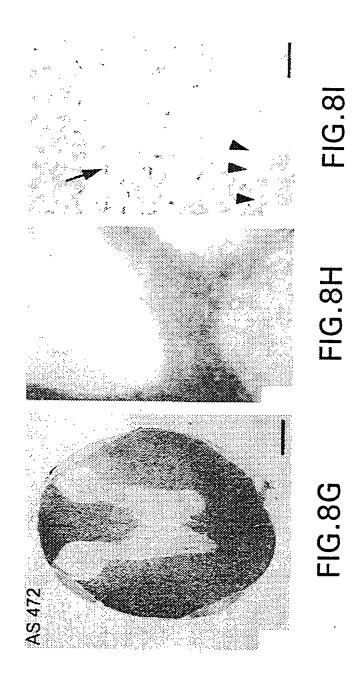
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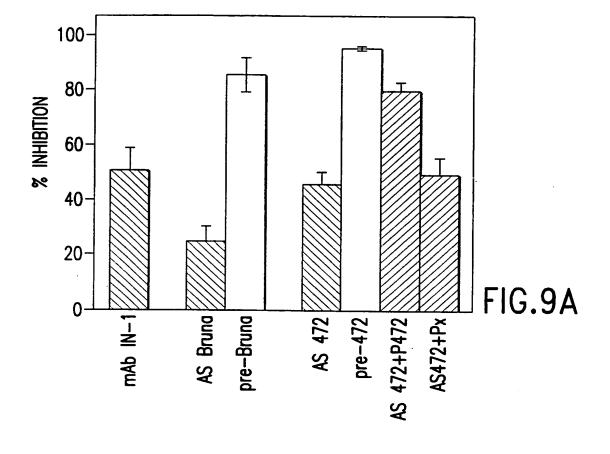


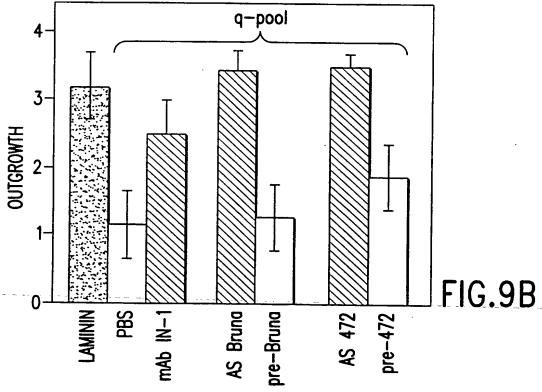
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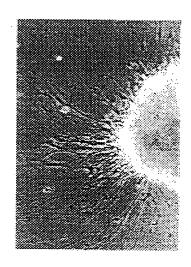


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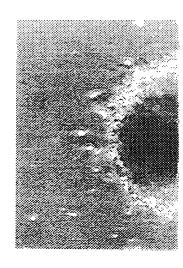




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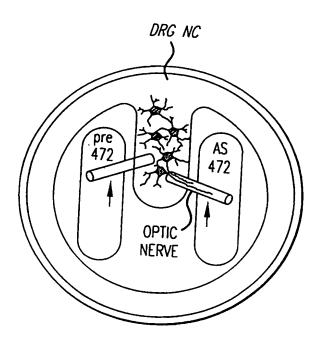


FIG. 10A

CULTURE	pre-472	AS 472
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4 5	+	_
6	+	+++ +++
7	++	++
8	+	++
9 10	+	++
10		+++

AXONS/NERVE:-=0;+=1-20;++=20-50;+++=50->300

FIG. 10B

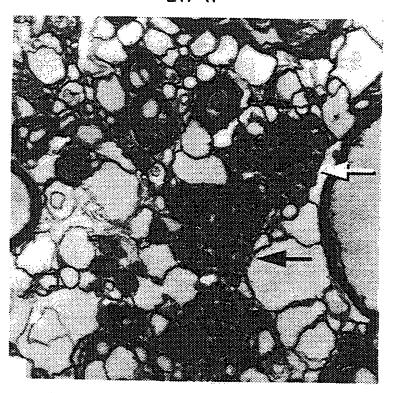
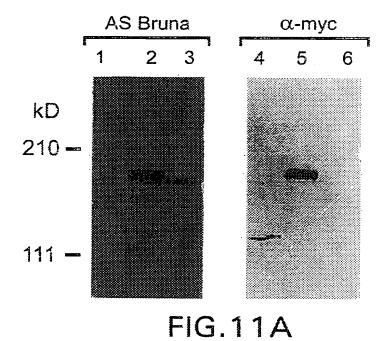


FIG.10C



FIG. 10D
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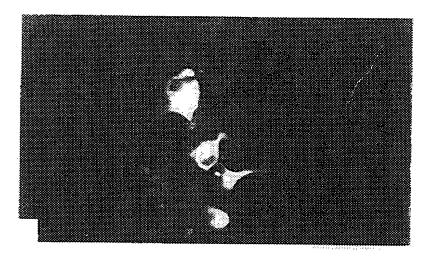


FIG.11B

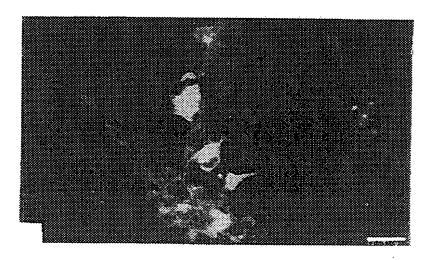


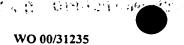
FIG.11C

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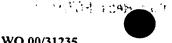
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10	) 20	30	40	50	60
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GTACTGCCCA	CTGAAGGAAC	ACTTCCAGCA	ACTTCAAATG	AAGCTTCTAA	AGCATTCTCA
130			160		
GAGAAGGCAA	AAAATCCATT	TGTAGAGAGA	AATTTAACAG	AATTTTCAGA	ATTGGAATAT
190				230	
TCAGAAATGG	AATCATCATT	CAGTGGCTCT	CAAAAGGCAG	AACCTGCCGT	AACAGTAGCG
250			280		300
AATCCTAGGG	ACGAAATAGT	TGTGAGGAGT	AGAGATAAAG	AAGAGGACTT	AGTTAGTCTT
310				350	
AACATCCTTC		GGAGTTATCT			
370		390			
		AAAAACAAAG			
430		450			
GAAGCTTCTA		ATATGCAGAC	TTCAAACCAT	TTGAGCGAGT	ATGGGAAGTG
490		510		530	
		TAGTGATGTT		GAGGTAATAT	AGAGAGCAAA
550		570		590	
	AAGTGGATAA	GAAACACTTT	TCAGATAGCC	TTGAACAAAC	AAATCGTGAA
610		630			660
	AAAGCAGTAA	TGATGACACT	TCATTTCCCA	GTACACCAGA	AGCTGTAAGA
670		690			
	GAGCGTACAT	CACGTGTGCT	CCCTTTAACC	CAACAACTGA	GAATGTTTCA
730	740	750	760	770	780
		GGAAGATCAT		ATAAGACAGA	TGAAAAAAG
790				830	840
ATAGAAAAA	AAAGGCACAA	ATTGTAACAG	AGAAGAATGC	AAGTGTCAAG	ACATCAAACC
850	860	870	880	890	900
CHICCITAT	GGCAGCACAG	GAGTCTAAGA	CAGATTACGT	TACAACAGAT	CATGTGTCAA
		930			
		GCAAACATGC			
9/0	980	990	1000	1010	1020
		AATGAAGCTA			
1030	1040	1050	.1060	1070	1080
TGGACCTGGT	ICAAACTICA	GAAGCTGTGC	AGGAGTCACT	TTACCCTGTA	ACACAGCTTT
		1110			
GUULATUTT	IGAAGAATCT	GAAGCTACTC	CGTCACCGGT	TTTGCCTGAC	ATTGTCATGG
1-150. AACCACCATT	1.160	1.1.70	1.180.	1190	1200
AAGCACCATT		GTTCCTAGTG			
1210	1220	1230	1240	1250	1260

## FIG 12A



			•		
CACCATTAGA	AACTCTTCC1	TCAGTTAATT	ATGAAAGCA	T AAAGTTTGAC	CCTGAAAATC
1270		1290			
					ATGAATGAAG
1330				1370	
					CCTTATATAT
1390		1410			
					CCAGATTTCT
1450		1470			
					GAGCTAGTTG
1510		1530	1540	1550	1560
AAGATTCCTC	CCCCGATTCT	GAACCAGTTG	ACTTATTTAG	TGATGATTCA	ATACCCGAAG
1570		1590			
TTCCACAAAA	ACAAGATGAA	GCTGTAATAC	TTGTGAAAGA	AAACCTCACT	GAAATTTCAT
1630		1650			
	GACAGGACAT	GACAATAAGG	GAAAACTCAG	TGCTTCACCA	TCACCTGAGG
1690	1700	1710	1720	1730	1740
GAGGAAAACC	GTATTTGGAG	TCTTTTCAGC	CCAGTTTAGG	CATCACAAAA	GATACCTTAG
1750	1760		1780	1790	1800
		TTGACCCAAA			ATGGAGGAGC
1810	1820	1830	1840	1850	1860
TCAATACTGC	AGTTTATTCA	AGTGATGGCT	TATTCATTGC	TCAGGAAGCA	AACCTAAGAG
1870	1880	1890	1900	1910	1920
AAAGTGAAAC	ATTTTCAGAT	TCATCTCCGA	TTGAGATTAT	AGATGAGTTC	CCGACCTTTG
1930	1940	1950	1960	1970	1980
TCAGTTCTAA	AGCAGATTCT	TCTCCTACAT	TAGCCAGGGA	ATACACTGAC	CTAGAAGTAG
1990	2000	2010	2020	2030	2040
CCCACAAAAG	TGAAATTGCT	GACATCCAGG	ATGGAGCTGG	GTCATTGGCT	TGTGCAGGAT
2050	2060	2070	2080	2090	2100
TGCCCCATGA		AAGAGTATAC	AACCTAAAGA	GGAAGTTCAT	GTCCCAGATG
2110			2140		2160
AGTICICCAA		GATGTTTCAA		ACTGCCTCCA	GATGTTTCTG
2170	2180	2190		2210	2220
		ATAGGCAGCA		CAAAGTTCTT	GTGAAAGAAG
2230	2240		2260		2280
CCGAGAGAAA		GATACAGAAA	AAGAGCGAAG	ATCTCCATCT	GCTATATTTT
2290	2300	2310	2320	2330	2340
CAGCAGAGCT			ACCTCCTCTA	CTGGAGAGAC	ATTAAGAAGA
2350	2360	2370	2380		2400
CTGGAGTGGT (		AGCTTGTTCC	TGCTGCTCTC	GCTGACAGTA-	TTCAGCATTG
2410	2420	2430	2440	2450	2460

## FIG. 12B



TGAGTGTAAC	GGCCTACATT	GCCTTGGCCC	TGCTCTCTGT	GACTATCAGO	TTTAGGATAT
24/(	2480	2490	2500	2510	2520
ATAAGGGTGT	GATCCAGGCT	ATCCAGAAAT	CIGATGAAGG	CCACCCATTC	AGGCATATT
	2540	2550	2560	2570	2580
IGGAATCIGA	AGTTGCTATA	CIGAGGAGI	IGGTTCAGAA	GTACAGCAAT	TCTGCTCTTG
2590	2600	2610	2620	2630	2640
GICAIGITAA	CTGCACAATA	AAAGAACICA	GACGCCTCTT	CTTAGTTGAT	GATTTAGTTG
2650	2660	2670	2680	2690	2700
ATTOTOTGAA	GTTTGCAGTG	I IGAIG IGGG	TATTTACCTA	TGTTGGTGCC	TTGTTCAATG
	2720	2730	2740	2750	2760
GICIGACACI	ACTAATTTTG	GCICTGATTT	CACTCTTCAG	TGTTCCTGTT	ATTTATGAAC
2//0	2780	2790	2800	2810	2820
GGCA TCAGGC	GCAAATAGAT	CALLATCTGG	GACTTGCAAA	TAAGAATGTT	AAAGATGCTA
2830	2840	2850	2860	2870	2880
IGGCTAAAAT	CCAAGCAAAA	ATCCCTGGAT	TGAAGCGTAA	AGCTGAATGA	GAAAGCCTGA
2890	2900	2910	2920	2930	2940
AAGAGTTAAC	AATAGAGGAG	TITATCTTTA	AAGGGGATAT	TCATTTGATT	CCATTGGGGA
2950	2960	2970	2980	2990	3000
GGGTCAGGGA	AGAACAAAGC	CITGACATTG	CAGTGCAGTT	TCACAGATCT	TTATTTTTAG
	3020	3030	3040	3050	3060
CAACGCAGTG	TCTGAGGAAA	AAIGACCIGT	CTTGACTGCC	CTGTGTTCAT	CATCTTAAGT
	3080	3090	3100	3110	3120
ATTGTAAGCT	GCTATGTATG	GATTIAAATC	GTAATCATAT	TIGITITICC	TGTATGAGGC
3130	3140	3150	3160	3170	3180
ACTGG IGAAT	AAACAAAGAT	CIGAGAAAGC	TGTATATTAC	ACTITGTCGC	AGGTAGTCTT
3190	3200	3210	3220	3230	3240
GUIGIATTIG	GGGAATTGCA	AAGAAAG IGG	AGCTGACAGA	AATAACCCTT	TTCACAGTTT
3250	3260	32/0	3280	3290	3300
GIGCACIGIG	TACGGTCTGT	GIAGGIIGAT	GCAGATTTTC	TGAAATGAAA	TGTTTAGACG
3310	3320	3330	3340	3350	.3360
AGATCATGCC	ACCAAGGCAG	GAGIGAAAAA	GCTTGCCTTT	CCTGGTATGT	
3370	3380	3390	3400	3410	3420
7470	TACTGTTGTA	HAATIGCCA	ATATAAGTAA		
3430	3440	3450	3460	3470	3480
7400	TTCACGAAGC	TIAGCCCTTT			
3490	3500	3510	3520	3530	3540
7550	GGGTTTTATG	IGIGIAGICC	CAAAGCACAT		
3550	3560	3570	3580	3590	3600
101A00C0LA	CTACCATCTG	THICAACAC			
3610	3620	3630	3640	3650	3660
1 JAAA I AJA 7670	CACTGCACAG	ACTIACIGIA			
3670	3680	3690	3700	3710	3720

FIG. 12C

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ATATAAATGA	ATGTAAGAAA	AAACATTGTT	TGCAAATATC	CAAAAATGTT	CTAATGCTTC
	3770			00	3730
CATTGTGAAC	CTGTGGAATG	TGAACTAAAT	TAAGCTGTAT	AATTGTGGTT	CGATTTATAC
					3790
	AAAAAAAAA	GACTTAAAAA	AAAGCTTATA	<b>AAGTATCAAT</b>	TGTAAAAGCA

FIG. 12D

The House of the Contract of the

WO 00/31235 PCT/US99/26160 28/41 MEDLDQSPLVSSS-DSPPRPQPAFKYQFVREPEDEE-EEEEE-EEEDEDE 50 MEDIDOSSLVSSSTDSPPRPPPAFKYQFVTEPEDEEDEEEEDEEED-DE 50 DLEELEVLERKPAAGLSAAPVPTAPAAGAPLMDFGNDFVPPAPRGPLPAA 51 100 DLEELEVLERKPAAGLSAAAVPPA - AA - APLLDFSSDSVPPAPRGPLPAA 51 100 PPVAPERQPSWDPSPVSSTVPAPSPLS - AAAVSPSKLPEDDEPPARPPPP 101 150 PPAÁPÉROPSWERSPAA - - - PÁPS - LPPAÁAVLPSKLPEDDÉPPÁRPPP 101 150 PPASVSPQAEPVWTPPAPAPAPPSTPAAPKRRGS-SG----AV----151 200 1 11 | 11111111111 ] [ ] [ ] [ ] [ ] [ ] [ PPAGASPLAEP----A-AP--P-STPAAPKRRGSGSVDETLFALPAASE 151 200 - VXXXX--KIMDLKEQPGNTISAGQEDFPSVLLETAASXPSLSPLSAASF 201 250 PVIPSSAEKIMDLMEQPGNTVSSGQEDFPSVLLETAASXPSLSPLSTVSF 201 250 KEHEYLGNLSTVLPTEGTLQE - - NVSEASKEVSEKAKTLLID-RDLTEFS 251 300 KEHGYLGNLSAVSSSEGTIEETLN - - EASKELPERA - TNPFVNRDLAEFS 251 300 ELEYSEMGSSFSVSPKAESAVI-VANPREEIIVKNKDEEEKLV-SNNILH 301 350 ÉLÉYSÉMGSSFKGSPKGESA-ILVENTKEEVIVRSKOKED-LVCSAA-LH 301 350 XQQELPTALTKLV-KEDEVVSSEKAKDSFNEKR--VAVEAPMREEYADFK 351 400 1 111 111 11 1 111 SPOESP - - - - - VGKEDRVVSPEKTMDIFNEMOMSV - V - APVREEYADFK 351 400 PFERVWEVKDSKEDS - DMLAAGGKIESNLESKVDKKCFADSLEQTNHEKD 401 450 111 1111 | | | | | | | PFEQAWEVKÖTYEGSRÖVLAARA - - - - NVESKVÖRKCLEDSLEQKSLGKÖ 401 450 SESSNDDTSFPSTPEGIKDRSGAYITCAPFNPAATESIAT-NIFPLLEDP 500 1 1 1111111 11 1 111111 1 1 1111 11 SEGRNEDASFPSTPEPVKDSSRAYITCASFTSA-TEST-TANTFPLLEDH 451 500 TSENXTDEKKIEEKKAQIVTEKNTSTKTSNPFFVAAQDSETDYVTTDNLT 501 550 TSENXTDEKKIEERKAQIITEK-TSPKTSNPFLVAVQDSEADYVTTDTLS 501 550 - 551 -KVTEEVVANMPEGLTPDLVQEACESELNEVTGTKIAYETKMDLVQTSEVM 600 -KVTEAAVSNMPEGLTPDLVQEACESELNEATGTKIAYETKVDLVQTSEAI 600

FIG. 13A

**强气气桶以下 可控制性证据** 

WO 00/31235 PCT/US99/26160 29/41 QESLYPAAQLCPSFEESEATPSPVLPDIVMEAPLNSAVPSAGASVIQPSS 650 QĖŚĻŸPTAQLCPSFĖĖAĖATPSPVLPDIVMĖAPLNSLLPSAGASVVQPSV 601 650 SPLEASS-VNYESIKHEPENPPPYEEAMSVSLKVSGIKEEIKEPENINAA 700 ŚPĹĖAPPPVSYDŚIKLĖPĖNPPPYĖĖAMNVALKALĠTKĖGIKĖPĖSFMAA 651 700 LQETEAPYISIACDLIKETKLSAEPAPDFSDYSEMAKVEQPVPDHSELVE 701 750 VQETEAPYISIACDLIKETKLSTEPSPDFSNYSEIAKFEKSVPEHAELVE 701 750 DSSPDSEPVDLFSDDSIPDVPQKQDETVMLVKESLTETSFESMIEYENKE 751 800 DŚŚPEŚEPVDLFSDDŚIPEVPQTQEEAVMLMKEŚLTEVŚ-ETVAQH--KE 751 800 K-LSALPPEGGKPYLESFK--L-SLDNTKDTLLPDEVSTLSKKEKIPLQM 801 850 ERĽSASPQĖLĠĶPYĽĖSFQPNĽHŠ - - - ŤKĎAASNĎIP - ŤĽŤĶĶĖĶÍSĽÓM 801 850 **EELSTAVYSNDDLFISKEAQIRETETFSDSSPIEIIDEFPTLISSKTDSF** 851 900 900 SKLAREYTDLEVSHKSEIANAPDGAGSLPCTELPHDLSLKNIQPKVEEKI 901 950 -KLÁKĖŸŤĎĹĖVSDKSĖĬÁŇIQSĠÁDSĹPĊLĖĹPCĎĹŠFKŇĬYPKDĖVHV 901 950 SFSDDFSKNGSATSKVLLLPPDVSALGHTQAEIESIVKPKVLEKEAEKKL 1000 951 1000 PSDTEKEDRSPSAIFSADLGKTSVVDLLYWRDIKKTGVVFGASLFLLLSL 1001 1050 1001 1050 TVFSIVSVTAYIALALLSVTISFRIYKGVIQAIQKSDEGHPFRAYLESEV 1051 1100 1051 ŤVFŠÍVŠVTÁYÍÁLÁLLSVTÍSFRÍYKGVÍQAÍQKSDEGHPFRAYLESEV 1100 1101 AISEELVQKYSNSALGHVNCTIKELRRLFLVDDLVDSLKFAVLMWVFTYV 1150 ÁÍSEELVOKÝSNSÁLGHVNSTÍKELRRLFLVDDLVDSLKFÁVLMWVFTÝV 1101 1150 GALFNGLTLLILALISLFSVPVIYERHQAQIDHYLGLANKNVKDAMAKIQ 1151 1200 ĠÁĹĖŇĠĹŤĹĹĬĹÁĹĬŚĹĖŚĮĖVĬŸĖŔĤŲVŲĬĎĤŸĹĠĹÁŇŔSVŔĎÁMÁKĬŲ 1151 1200 1201 AKIPGLKRKAE.... 1250 1201 

FIG.13B

1		G GC			T GGG S G									G GA(
43	AA N	T TT	T GC F	A GT	T TAC	AGC	GTT G V	TCI	r GTT	GGT GGT	ATC	1 F	1 1	TT(
85	TAA	A TT( -	G CT	G CT( L L	GAG E	GGC	AGA R	TCC	TGG	CAA / Q	GAA	STAR	GAC	
127	CAG	) AA(	G AA.	A CAI	TGG I W	AAG K	GAC D	AAG K	GTT V	GTT V	GAC D	CTC	CTC	TAC Y
169	TGG W	AG/	A GA(	C ATT	AAG K	AAG K	ACT T	GGA G	GTG	GTG V	TTT F	GGT G		AGC
211	TTA L	TT(	C CT(	CTG L	CTG L	TCT S	CTG L	ACA T	GTG V	TTC F	AGC S	TTA I	GTC V	AGT
253	GTA V	ACC	G GCC	C TAC	ATT I	GCC A	TTG L	GCC A	CTG L	CTC L	TCG S	GTG V	ACT T	
295	AGC S	TTT F	AGC F	ATA	TAT	AAG K	GGC G	GTG V	ATC I	CAG Q	GCT A	ATC I	CAG Q	AAA K
337	TCA S	GAT D	GAA	GCC G	CAC H	CCA P	TTC F	AGG R	GCA A	TAT Y	TTA L	GAA E	TCT S	GAA E
379	GTT V	GCT A	ATA I	TCA S	GAG E	GAA E	TTG L	GTT V	CAG Q	AAA K	TAC Y	AGT S	AAT N	TCT S
421	GCT A	CTT	GGT G	CAT H	GTG V	AAC N	AGC S	ACA T	ATA I	AAA K	GAA E	CTG L	AGG R	CGG R
463	CII	TTC F	TTA L	GTT V	GAT D	GAT D	TTA L	GTT V	GAT D	TCC S	CTG L	AAG K	TTT F	GCA A
505	GTG V	TTG L	ATG M	TGG W	GTG V	TTT F`	ACT T	TAT Y	GTT V	GGT G	GCC A	TTG L		AAT N
547	GGT G	CTG L	ACA T	CTA L	CTG .	TTA I	TTA L	GCT A	CTG L	ATC I	TCA S	CTC L	TTC F	AGT S

# FIG. 14A

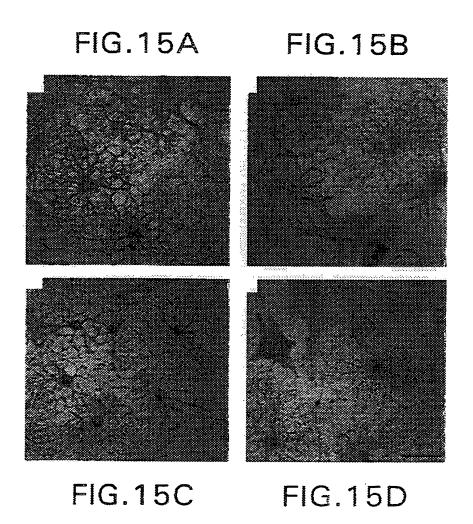
589 ATT CCT GTT ATT TAT GAA CGG CAT CAG GTG CAG ATA GAT CAT IPVIYERHQVQIDH 631 TAT CTA GGA CTT GCA AAC AAG AGT GTT AAG GAT GCC ATG GCC YLGLANKSVKDAMA 673 AAA ATC CAA GCA AAA ATC CCT GGA TTG AAG CGC AAA GCA GAT KIQAKIPGLKRKAD 715 TGA AAA AGC CCC AAA CAG AAG TTC ATC TTT AAA GGG GAC ACT I-KSPKQKFIFKGDI 757 CAC TTG ATT ACG GGG GTG GGA GGT CAG GGG TGA GCC CTT GGT H L I T G V G G Q G - A L G 799 GGC CGT GCG GTT TCA GCT CTT TAT TTT TAG CAG TGC ACT GTT GRAVSALYF-QCTV 841 TGA GGA AAA ATT ACC TGT CTT GAC TTC CTG TGT TTA TCA TCT - G K I T C L D F L C L S S 883 TAA GTA TTG TAA GCT GCT GTG TAT GGA TCT CAT TGT AGT CAC - V L - A A V Y G S H C 925 ACT TGT CTT CCC CAA TGA GGC GCC TGG TGA ATA AAG GAC TCG LPQ-GAW-I 967 GGG AAA GCT GTG CAT TGT ATC TGC TGC AGG GTA GTC TAG CTG G K A V H C I C C R V V - L 1009 TAT GCA GAG AGT TGT AAA GAA GGC AAA TCT GGG GGC AGG GAA YAESC KEGKSGGRE 1051 AAC CCT TTT CAC AGT GTA CTG TGT TTG GTC AGT GTA AAA CTG NPFHSVLCLVSVKL 1093 ATG CAG ATT TIT CTG AAA TGA AAT GTT TAG ATG AGA GCA TAC M Q I F L K - N V - M R A Y 1135 TAC TAA AGC AGA GTG GAA AAC TCT GTC TTT ATG GTG TGT TCT Y - S R V E N S V F M V C S

FIG. 14B

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1177 AGG TGT ATT GTG AAT TTA CTG TTA TAT TGC CAA TAT AAG TAA RCIVNLLLYCQYK-1219 ATA TAG ACC TAA TCT ATA TAT AGT GTT TCA CAA AGC TTA GAT I - T - S I Y S V S Q S L D 1261 CTT TAA CCT TGC AGC TGC CCC ACA GTG CTT GAC CTC TGA GTC L - P C S C P T V L D L - V 1303 ATT GGT TAT GCA GTG TAG TCC CAA GCA CAT AAA CTA GGA AGA I G Y A V - S Q A H K L G 1345 GAA ATG TAT TTG TAG GAG TGC TAC CTA CCA CCT GTT TTC AAG EMYL-ECYLPPV 1387 AAA ATA TAG AAC TCC AAC AAA AAT ATA GAA TGT CAT TTC AAA K 1 - N S N K N I E C H F K 1429 GAC TTA CTG TAT GTA TAG TTA ATT TTG TCA CAG ACT CTG AAA D L L Y V - L I L S Q T 1471 TTC TAT GGA CTG AAT TTC ATG CTT CCA AAT GTT TGC AGT TAT FYGLNFMLPNVC 1513 CAA ACA TTG TTA TGC AAG AAA TCA TAA AAT GAA GAC TTA TAC Q T L L C K K S - N E D L Y 1555 CAT TGT GGT TTA AG H C G L

**FIG. 14C** 



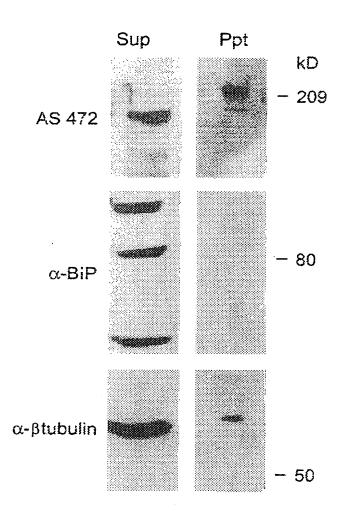
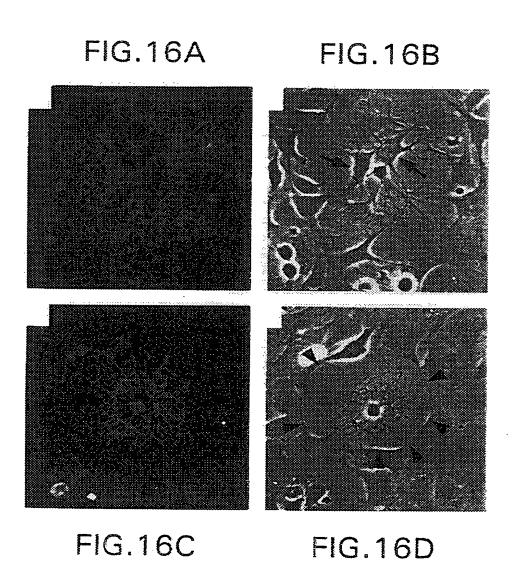
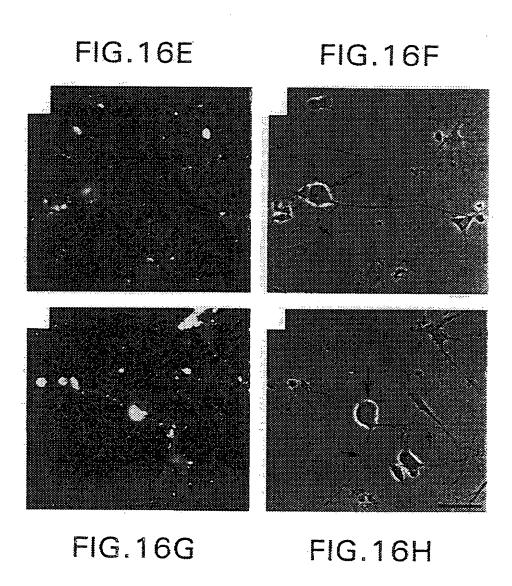


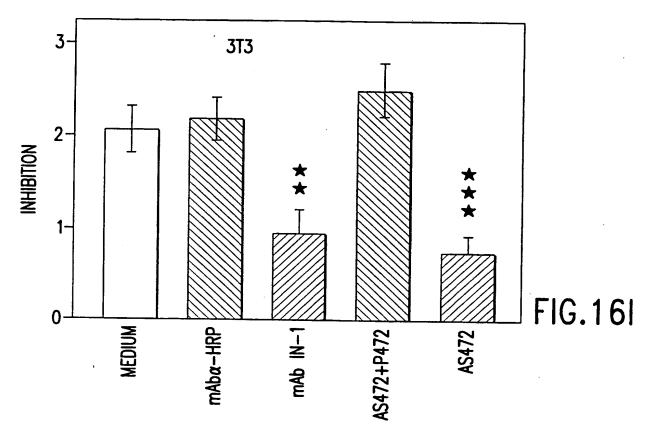
FIG.15E

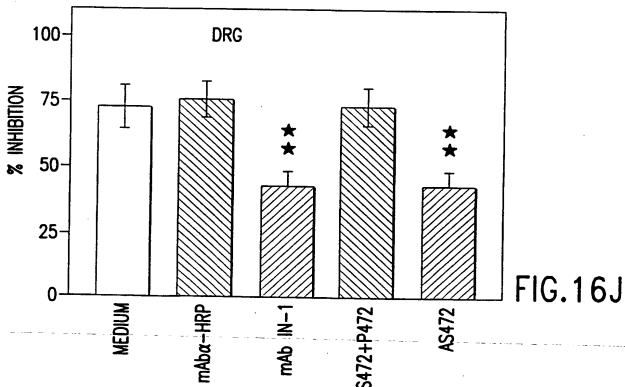




CONTRACT STATEMENT

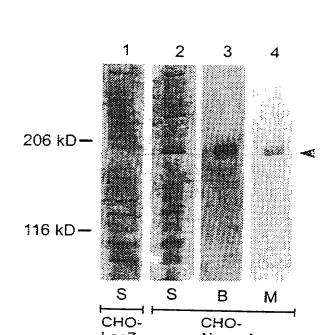






**SUBSTITUTE SHEET (RULE 26)** 



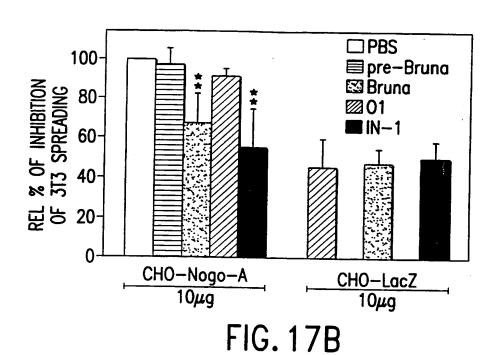


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FIG.17A

Nogo-A



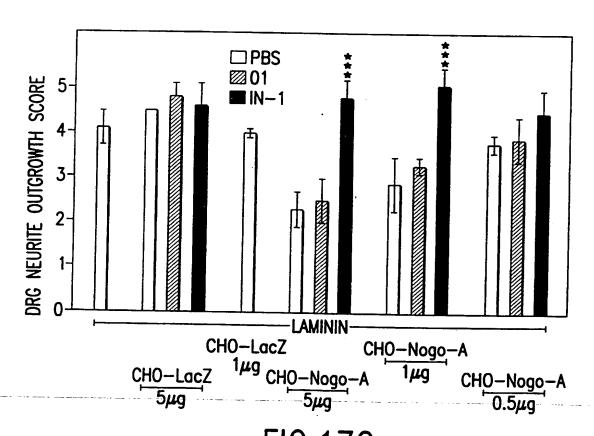
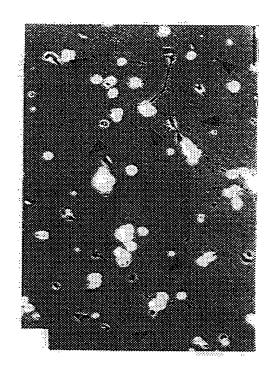
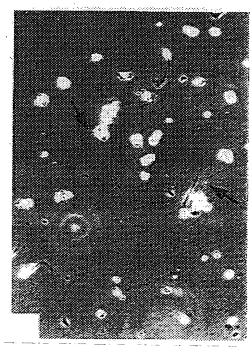


FIG.17C

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